

SAFETY DATA SHEET

SDS0089AU-F

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Smoke Centurion.

Trade Name M8 Smoke-01-XXX (XXX denotes customer variant).

CAS No. Mixture.

EINECS No. Mixture.

REACH Registration No. None assigned.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s)

Smoke simulation.

Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Identification FlameStop Australia, 13 Chaplin Street, Lane Cove, NSW, 2066.

 Telephone
 02 9932 2020

 Fax
 02 9932 2022

E-mail sales@flamestop.com.au

1.4 Emergency telephone number

Emergency Phone No. 0425 342 729

1.5 Details of the manufacturer

Company Identification Detectortesters (No Climb Products Ltd), Edison House, 163 Dixons Hill Road, Welham

Green, Hertfordshire. AL9 7JE. United Kingdom

Telephone +44 (0) 1707 282760 Fax +44 (0) 1707 282777 E-mail SDS@detectortesters.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to GHS 3rd revised eddition Aerosol 1; Extremely flammable aerosol.

Pressurised container: May burst if heated.

2.2 Label elements According to GHS 3rd revised eddition

Hazard Pictogram(s)



GHS02

Signal Word(s) Danger.

Hazard Statement(s) H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Precautionary Statement(s) P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

2.3 Other hazards None.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

GHS 3rd Revised Edition

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement(s)
Butane	50 – 100	106-97-8	203-448-7	01-2119474691-32	GHS02, Flam. Gas 1; H220, GHS04, Press. Gas: Liquefied gas; H280
Propane	10 – 25	74-98-6	200-827-9	01-2119486944-21	GHS02, Flam. Gas 1; H220, GHS04, Press. Gas: Liquefied gas; H280
Ethanol	0 – 5	64-17-5	200-578-6	None assigned	GHS02, Flam. Liq. 2; H225

3.2 Additional Information

For full text of H/P statements see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

Skin Contact Wash skin with soap and water.

Eye Contact Flush eyes with water for at least 15 minutes while holding eyelids open.

Ingestion Unlikely route of exposure.

4.2 Most important symptoms and effects, both acute and delayed None anticipated.

4.3 Indication of any immediate medical attention and special Unlikely to be required but if necessary treat symptomatically.

treatment needed

SECTION 5: FIRE-FIGHTING MEASURES

Pressurised container: May burst if heated.

5.1 Extinguishing Media

Suitable Extinguishing Media Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Unsuitable Extinguishing Media Do not use water jet.

5.2 Special hazards arising from the substance or mixture Heating may cause pressure rise with risk of bursting.

Advice for fire-fighters Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire

area because they are likely to rupture under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard. In case of rupture, released content should be contained as any other solvent spill.

6.1 Personal precautions, protective equipment and Ensure adequate ventilation. Wear suitable gloves and eye/face protection. emergency procedures

6.2 Environmental precautions Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and Collect mechanically and dispose of according to Section 13. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for cleaning up disposal or recovery. Containers must not be punctured or destroyed by burning, even

when empty.

6.4 Reference to other sections See Also Section: 8, 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Do not pierce or burn, even after use. Do not spray on a naked flame or any

incandescent material. Provide adequate ventilation.

Do not eat, drink or smoke during work. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any

incompatibilities Storage Temperature Observe official regulations on storing packagings with pressurised containers.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding

Storage Life Stable under normal conditions.

Incompatible materials None anticipated. 7.3 Specific end use(s) Smoke simulation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits 8.1.1

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Butane	106-97-8	600	1450	750	1810	WEL
Ethanol	64-17-5	1000	1920	-	-	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value Not established.

8.1.3 PNECs and DNELs Not established.

8.2 **Exposure controls**

8.2.2

8.2.3

8.2.1 Appropriate engineering controls

Provide adequate ventilation. Personal protection equipment

Eye/face protection

If eye contact is likely: Wear protective eyewear (goggles,

face shield, or safety glasses).

Skin protection (Hand protection/ Other) Wear suitable gloves if prolonged skin contact is likely.

Gloves: Nitrile rubber, NBR.

Respiratory protection

No personal respiratory protective equipment normally required. Handling of larger amounts: In case of insufficient ventilation, wear suitable respiratory equipment. A suitable mask with filter type A (EN14387 or EN405) may be

appropriate. Not applicable.

Thermal hazards

Do not release large quantities into the surface water or into

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Environmental Exposure Controls

Appearance Aerosol. Colour Colourless. Odour Characteristic. Odour Threshold Not determined. рΗ Not determined.

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Melting Point/Freezing Point Not determined.

Initial boiling point and boiling range -44 °C
Flash Point <0 °C
Evaporation rate Not available.

Flammability (solid, gas) Extremely flammable.

Vapour pressure 4.3 bar @ 20 °C

Density 0.58 g/cm³ @ 20 °C

Vapour density Not determined.

Relative density Not determined.

Solubility(ies) Immiscible with water.

Partition coefficient: n-octanol/water Not determined.

Ignition temperature 365 °C

Auto-ignition temperature Product is not selfigniting.

Decomposition Temperature

Kinematic Viscosity

Explosive properties

Oxidising properties

Not determined.

Not explosive.

Not explosive.

Not oxidising.

9.2 Other information

Organic solvents – Content 96.4%

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Stable under normal conditions. 10.2 Chemical stability Stable under normal conditions. 10.3 Possibility of hazardous reactions Stable under normal conditions. 10.4 Conditions to avoid Heat and direct sunlight. 10.5 Incompatible materials None anticipated. 10.6 **Hazardous Decomposition Product(s)** None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixtures

Acute toxicity
Irritation
Corrosivity
Low acute toxicity.
Non-irritant.
Not classified.

SensitisationIt is not a skin sensitiser.Repeated dose toxicityNone anticipated.

Carcinogenicity No evidence of carcinogenicity.

Mutagenicity There is no evidence of mutagenic potential.

Toxicity for reproduction Aspiration hazardNone anticipated.

None anticipated.

11.2 Other information None.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Low toxicity to aquatic organisms.

12.2 Persistence and degradability
 12.3 Bioaccumulative potential
 The product is readily biodegradable. Unlikely to persist.
 The product has no potential for bioaccumulation.

12.4 Mobility in soil Immiscible with water. The product is predicted to have low

mobility in soil.

12.5 Results of PBT and vPvB assessment Not classified as PBT or vPvB.

12.6 Other adverse effects None.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal

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facility. Do NOT landfill.

Additional Information Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 **UN** number

ADR, IMDG, IATA

14.2 **UN Proper Shipping Name**

> **IMDG AEROSOLS** IATA

14.3 Transport hazard class(es)

ADR

Class / Classification

Label

IMDG, IATA

Class / Division 2.1 Label 2.1

Packing Group 14.4

14.5

ADR, IMDG, IATA

Environmental hazards

Marine Pollutant

14.6 Special precautions for user

Kemler Code

IMDG EMS

Transport in bulk according to Annex II of 14.7

MARPOL73/78 and the IBC Code 14.8 **Additional Information**

ADR

Limited Quantity (LQ)

ADR Transport Category

Tunnel Restriction Code

IMDG

IATA

Limited Quantity (LQ)

Limited Quantity (LQ)

UN Model Regulation

UN 1950

1950 AEROSOLS

AEROSOLS, Flammable

2 5F Gases.

None.

No.

Warning: Gases.

F-D, S-U

Not applicable.

1 L

Not applicable in Limited Quantities.

1L

1L



UN 1950, AEROSOLS, 2.1

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations 15.1.1

Authorisations and/or restrictions on use

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Candidate List of Substances of Very High Concern for Authorisation

REACH: ANNEX XVII Restrictions on the manufacture, placing on the market and use of certain

dangerous substances, mixtures and articles

REACH: ANNEX XIV List of substances subject to authorisation

Community Rolling Action Plan (CoRAP);

15.1.2 National regulations

Wassergefährdungsklasse (Germany)

Ethanol

Technical Instructions (air)

All chemicals are not listed.

All chemicals are not listed. All chemicals are not listed. All chemicals are not listed.

None known.

WGK class 1

Class	Share in %
NK	50 – 100

 VOC-CH
 96.45%

 VOC-EU
 559.4g/l

 Danish MAL Code
 3-1

 Chamical Sefety Accompany
 Not excite

15.2 Chemical Safety Assessment

Not available.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL Long Term Exposure Limit
STEL Short Term Exposure Limit
DNEL Derived No Effect Level

PNEC Predicted No Effect Concentration
PBT Persistent, Bioaccumulative and Toxic
VPvB very Persistent and very Bioaccumulative
WGK Wassergefährdungsklasse (Germany)

VOC Volatile Organic Compounds

MAL Code Måleteknisk Arbejdshygiejnisk Luftbehov

(Regulation for the labeling concerning inhalation hazards, Denmark)

ADR Accord européen elative au transport international des marchandises dangereuses par route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG International Maritime Code for Dangerous Goods

IATA International Air Transport Association

Press. Gas Gases under pressure
Flam. Gas 1 Flammable gas Category 1

Hazard Statement(s)

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

Revision

A vertical line in the left hand margin indicates a change from the previous revision.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.

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